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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/571,319	06/27/2006	Henry Azima	0858740457	8363
	7590 09/30/200 LARDNER LLP	EXAMINER		
SUITE 500	T NIII	ENSEY, BRIAN		
3000 K STREET NW WASHINGTON, DC 20007			ART UNIT	PAPER NUMBER
			2615	
			MAIL DATE	DELIVERY MODE
			09/30/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/571,319	AZIMA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Brian Ensey	2615			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>09 M</u> This action is FINAL . 2b) ☐ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,2 and 9-12 is/are rejected. 7) ☐ Claim(s) 3-8, 13-18 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 09 March 2006 is/are: a Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction.	vn from consideration. r election requirement. r. a)⊠ accepted or b)⊡ objected to drawing(s) be held in abeyance. See	37 CFR 1.85(a).			
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 3/9/06 & 9/8/06.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 9-12 and XXX are rejected under 35 U.S.C. 103(a) as being unpatentable over Whitwell et al. U.S. Patent Application Publication 2002/0039427 A1 in view of White U.S. Patent No. 2,045,427.

Regarding claim 1, Whitwell discloses an audio apparatus comprising a piezoelectric transducer and a coupling adapted to couple the transducer to a user's pinna whereby the transducer excites vibration in the pinna to cause it to transmit an acoustic signal from the transducer to a user's inner ear (See Fig. 6 and paragraphs 007, 008 and 0011). Whitwell does not expressly disclose the transducer is embedded in a casing of relatively soft material and the casing is mounted to a housing of relatively hard material such that a cavity is defined between the casing and housing. However, the use of encased piezo tranducers is well known in the art and White teaches a transducer (20) is embedded in a casing of relatively soft material (38) and the casing is mounted to a housing of relatively hard material (16) such that a cavity is defined between the casing and housing (See Fig. 5, col. 3, lines 62-66, col. 4, line 79 to col. 5, line 21).

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Therefore, It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the piezo transducer as taught by White in the apparatus of Whitwell to enable sufficient and faithful reproduction of sound (See White col. 2, lines 10-15).

Regarding claim 2, the combination of Whitwell in view of White further discloses the transducer is adapted be coupled to a rear face of a user's pinna adjacent to the user's concha (See Whitwell abstract).

Regarding claim 9, the combination of Whitwell in view of White further discloses the coupling is in the form of a hook (56), an upper end of which curves over an upper surface of the pinna (See Fig. 21).

Regarding claim 10, the combination of Whitwell in view of White further discloses a lower end of the hook curves under the lower surface of the pinna (See Fig. 21).

Regarding claim 11, the combination of Whitwell in view of White further discloses the housing is mounted to the hook so that the transducer casing contacts a lower part of the pinna (See Fig. 21).

Regarding claim 12, Whitwell discloses a method of designing audio apparatus comprising mechanically coupling a piezoelectric transducer to a user's pinna and driving the transducer so that the transducer excites vibration in the pinna to cause it to transmit an acoustic signal from the transducer to a user's inner ear (See Fig. 6 and paragraphs 007, 008 and 0011). Whitwell does not expressly disclose the transducer is embedding the transducer in a casing of relatively soft material and by mounting the casing to protective housing of relatively hard material such that a cavity is defined between the casing and housing. However, the use of encased piezo tranducers is well known in the art and White teaches a transducer (20) is

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embedded in a casing of relatively soft material (38) and the casing is mounted to a housing of relatively hard material (16) such that a cavity is defined between the casing and housing (See Fig. 5, col. 3, lines 62-66, col. 4, line 79 to col. 5, line 21). Therefore, It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the piezo transducer as taught by White in the apparatus of Whitwell to enable sufficient and faithful reproduction of sound (See White col. 2, lines 10-15).

Allowable Subject Matter

Claims 3-8 and 13-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Ensey whose telephone number is 571-272-7496. The examiner can normally be reached on Monday - Friday 6:00 AM - 2:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Suhan Ni can be reached on 571-272-7505. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks P.O. Box 1450 Alexandria, Va. 22313-1450

Or faxed to:

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(571) 273-8300, for formal communications intended for entry and for informal or draft communications, please label "PROPOSED" or "DRAFT".

Hand-delivered responses should be brought to:

Customer Service Window Randolph Building 401 Dulany Street Arlington, VA 22314

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/Brian Ensey/ Primary Examiner, Art Unit 2615 September 25, 2008